

2834

PATENT APPLICATION

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Masahiro KATOH et al.

Application No.: 09/788,426

Filed: February 21, 2001

Docket No.: 111282

For: MULTI-LAYERED BRUSH OF ROTARY ELECTRIC MACHINE AND METHOD
OF MANUFACTURING THE SAME

SUBMISSION OF POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Enclosed is a Power of Attorney by Assignee to be made of record in the above-
identified application.

In the event of any nonpayment or improper payment of a required fee, the
Director is authorized to charge or to credit OLIFF & BERRIDGE, PLC Deposit Account No.
15-0461 as required to correct the error.

Respectfully submitted,

James A. Oliff
Registration No. 27,075

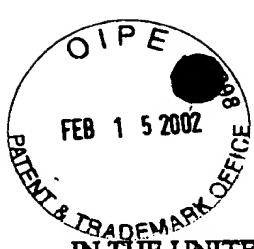
Thomas J. Pardini
Registration No. 30,411

JAO:TJP/kaw

Date: February 15, 2002

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

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Please grant any extension
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FEB 20 2002

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POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Denso Corporation is the Assignee of the entire right, title and interest in the patent applications identified in the attached Appendix A by virtue of Assignments recorded at the locations identified in the Appendix. Additionally, Denso Corporation is the Assignee of the entire right, title and interest in the following seven patent applications for which Assignments have been filed, but the original Assignments, indicating the dates and reel and frame numbers of recordation, have not yet been returned:

<u>U.S. Patent Application No.</u>	<u>Filed</u>	<u>Inventors</u>
09/879,035	June 13, 2001	Hironao YAMAGUCHI
09/885,163	June 21, 2001	Keiji TAKAHASHI et al.
09/912,301	July 26, 2001	Nakato MURATA et al.
09/918,826	August 1, 2001	Masami NIIMI et al.
09/922,691	August 7, 2001	Tadatoshi ASADA
09/903,494	July 13, 2001	Naoto IWATA et al.
09/873,410	June 5, 2001	Shigenobu NAKAMURA

Copies of the Recordation Cover Sheets and executed Assignments as filed for these applications are attached hereto.

The undersigned is authorized to act on behalf of Denso Corporation; has reviewed the evidentiary documents in the chain of title; and certifies that to the best of the Assignee's knowledge and belief, title is in the Assignee.

Denso Corporation hereby revokes all prior powers of attorney and appoints the following as attorneys of record with full power of substitution and revocation to prosecute this

application and all continuations and divisions thereof; and to transact all business in the Patent and Trademark Office:

James A. Oliff, Registration No. 27,075;
William P. Berridge, Registration No. 30,024;
Kirk M. Hudson, Registration No. 27,562;
Thomas J. Pardini, Registration No. 30,411;
Edward P. Walker, Registration No. 31,450;
Robert A. Miller, Registration No. 32,771;
Mario A. Costantino, Registration No. 33,565;
Stephen J. Roe, Registration No. 34,463;
Joel S. Armstrong, Registration No. 36,430;
Christopher W. Brown, Registration No. 38,025;
Richard E. Rice, Registration No. 31,560; and
Paul Tsou, Registration No. 37,956.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA,
VIRGINIA 22320. TELEPHONE: (703) 836-6400.

February 14, 2002
Date

Masashi Kamiya
Signature

Typed Name: Masashi Kamiya

Title: General Manager

APPENDIX A

<u>U.S. Patent Application Serial No.</u>	<u>Filed</u>	<u>Oliff & Berridge, PLC Docket No.</u>	<u>Reel/Frame No.</u>
09/538,983	March 30, 2000	111267	010661/0135
09/758,169	January 12, 2001	111277	011460/0868
09/777,699	February 7, 2001	111281	011540/0141
09/788,426	February 21, 2001	111282	011558/0650
09/837,382.	April 19, 2001	111287	011706/0632
09/849,274	May 7, 2001	111290	011784/0710
09/878,247	June 12, 2001	111291	011900/0317
09/883,204	June 19, 2001	111293	011917/0398
09/883,205	June 19, 2001	111294	011916/0601
09/899,054	July 6, 2001	111297	011965/0421
09/935,695	August 24, 2001	111307	012120/0029
09/940,648	August 29, 2001	111310	012126/0801
09/940,797	August 29, 2001	111311	012126/0951
09/948,581	September 10, 2001	111313	012163/0692
09/949,753	September 12, 2001	111314	012163/0229
09/950,057	September 12, 2001	111315	012201/0554
09/808,364	March 15, 2001	111316	011612/0898
09/935,696	August 24, 2001	111318	012120/0318
09/599,422	June 22, 2000	111327	010896/0961
09/803,979	March 13, 2001	111332	011603/0287
09/960,735	September 24, 2001	111334	012206/0462

<u>U.S. Patent</u>			
<u>Application Serial</u>		<u>Oliff & Berridge,</u>	<u>Reel/Frame</u>
<u>No.</u>	<u>Filed</u>	<u>PLC Docket No.</u>	<u>No.</u>
09/521,604	March 9, 2000	111336	010631/0795
09/574,451	May 19, 2000	111337	010816/0493
09/891,349	June 27, 2001	111344	012241/0693
09/773,262	February 1, 2001	111348	012238/0216

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1. Hironao YAMAGUCHI

3.

5.

7.

2.

4.

6.

8.

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FEB 15 2002
PATENT
OFFICE
JC98

TECHNOLOGY CENTER 2800

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

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<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> FACSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: June 1, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) June 1, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
NEW APPLICATION	281387				

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
 Intellectual Property Group
 1100 New York Avenue, NW
 Ninth Floor
 Washington, DC 20005-3918

6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL 17. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:		8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO		
P 281387	30954		30954	281387
MATTER NO.	CLIENT REF.	dup. sheet not required	CLIENT NO.	MATTER NO.

9.

Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/mjb

TEL: (202) 861-3014

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Date: June 13, 2001

FAX: (202) 822-0944

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Atty. Dkt. PW 56600-US-AK/nh
M# Client Ref.

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In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Hironao YAMAGUCHI	(2)
(3)	(4)
(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSESSOR(S)
& ADDRESS(ES)

DENSO CORPORATION
1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

TRANSFORMER DEVICE, HIGH-VOLTAGE GENERATING APPARATUS
HAVING THE SAME, AND LIGHTING SYSTEM HAVING THEM

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) even date herewith
(Complete)
line A, B and/or C) (B) on _____
(C) in U.S. Appln. No. _____ / filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1): Hironao Yamaguchi
Name: Hironao YAMAGUCHI
2)
Name:
3)
Name:
4)
Name:
5)
Name:

DATE SIGNED

June 1, 2001

WITNESSES

Yoshitaka Sato

BOX ASSIGNMENTS

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1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Keiji TAKAHASHI
 3. Makoto TANIGUCHI
 5.
 7.

FEB 1 5 2002

2. Toshinori MARUYAMA
 4.
 6.
 8.

TECHNOLOGY CENTER 2800

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1 Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

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- ASSIGNMENT OF WHOLE PART INTEREST
 ORIGINAL FACSIMILE/PHOTOCOPY
 CHANGE OF NAME VERIFIED TRANSLATION
 SECURITY MERGER OTHER:

EXEC. DATE: May 31, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) May 31, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT APP. NO.(S) series code/serial no.	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
--	----	--	-----------------	----	--

NEW APPLICATION 281174

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
 Intellectual Property Group
 1600 Tysons Boulevard
 McLean, VA 22102

5.ATTY DKT:

P 281174

56656-US-SuS/sm

MATTER NO.

CLIENT REF.

6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL 17. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$408. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975
UNDER ORDER NO 30954 281174

dup. sheet not required CLIENT NO. MATTER NO.

9.

Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/mjb

TEL: (703) 905-2020

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Date: June 21, 2001

FAX: (703) 905-2500

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Ninth Floor
Washington, DC 20005-3918

USA Patent Appin.
Sole or Joint

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Atty. Dkt PW 5665 6-US
M# _____

Client Ref. _____

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NONPROVISIONAL

OF NONPROVISIONAL APPLICATION

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1)	Keiji TAKAHASHI	(2)	Toshinori MARUYAMA
(3)	Makoto TANIGUCHI	(4)	
(5)			<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

DENSO CORPORATION
1-1 Showa-cho, Kariya-city
Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

VOLTAGE REGULATOR OF VEHICLE AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) even date herewith
(Complete) (B) on
line A, B and/or C (C) in U.S. Appln. No. / filed /

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1): Keiji TAKAHASHI
Name: Keiji TAKAHASHI
2) Toshinori Maruyama
Name: Toshinori MARUYAMA
3) Makoto Taniguchi
Name: Makoto TANIGUCHI

DATE SIGNED

May/31/2001

WITNESSES

Hiroshi Ishida

May/31/2001

Hiroshi Ishida

May/31/2001

Hiroshi Ishida

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1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Nakato MURATA

3. Tsutomu SHIGA

5.

7.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

FEB 1 5 2002

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

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<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> FAXSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER

EXEC. DATE: (1 & 2) July 12, 2001 and
(3) July 13, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) (1 & 2) July 12, 2001 and (3) July 13, 2001

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A. PAT. APP. NO.(S) series code/serial no.	M#	B. PATENT NO(S) if not in item 1	M#	1st INVENTOR if not in item 1
---	----	-------------------------------------	----	----------------------------------

NEW APPLICATION 0282704

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons Boulevard

McLean, VA 22102

5.5 ATTY DKT:

P 0282704

57062-US-SuS/mk

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CLIENT REF.

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Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

Date: July 26, 2001

FAX: (703) 905-2500

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1600 Tysons Boulevard
McLean VA 22102

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Sole or Joint

5706-107
Inventions made outside USA
executed with or after application

Atty. Dkt. PW

M#

Client Ref.

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ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Nakato Murata	(2) Yoshiki Tan
(3) Tsutomu Shiga	(4)
(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSESSOR(S)
& ADDRESS(ES)

DENSO CORPORATION
1-1, SHOWA-CHO, KARIYA-CITY, AICHI-PREF., 448-8661 JAPAN

(hereinafter designated "ASSESSOR") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF
INVENTION

BRUSH-LESS ROTARY ELECTRIC MACHINE HAVING STATOR COOLING ARRANGEMENT

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →
(Complete
line A, B and/or C)

(A) even date herewith
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(C) in U.S. Appln. No. _____ / filed _____

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AND the undersigned hereby agree(s) to testify and execute any papers for ASSESSOR, its successors, assigns and legal representatives, deemed essential by ASSESSOR to ASSESSOR'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	<u>INVENTORS</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
1):	Nakato Murata	July 12, 2001	Hiroshi Shida
Name:	Nakato Murata		
2)	Yoshiki Tan	July 12, 2001	Hiroshi Shida
Name:	Yoshiki Tan		
3)	Tsutomu Shiga	July 13, 2001	Hiroshi Shida
Name:	Tsutomu Shiga		
4)			
Name:			
5)			
Name:			

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1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Masami NIIMI
 3. Masahiro KATOH
 5.
 7.

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2. Hideki ICHIKAWA
 4.
 6.
 8.

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ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

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<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE:	(1)	June 5, 2001
	(2)	June 11, 2001
	(3)	June 6, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) (1) June 5, 2001; (2) June 11, 2001; (3) June 6, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR If not in item 1
NEW APPLICATION	0281512				
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed: Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102			6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1		
			7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40		
5.5 ATTY DKT: P 0281512			8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 030954 0281512 MATTER NO. CLIENT REF. dup. sheet not required CLIENT NO. MATTER NO.		

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Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

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57168-US-
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Sole or Joint

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ASSIGNMENT

NONPROVISIONAL

OF NONPROVISIONAL APPLICATION

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT	(1) Masami NIIMI	(2) Hideki ICHIKAWA
NAME(S) OF INVENTOR(S)	(3) Masahiro KATOH	(4)
	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT	DENSO CORPORATION
NAME(S) OF ASSIGNEE(S)	1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan
& ADDRESS(ES)	

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION

METHOD OF FABRICATING BRUSHES

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) even date herewith
(Complete) (B) on _____
line A, B and/or C) (C) in U.S. Appln. No. / filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE's full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	INVENTORS	DATE SIGNED	WITNESSES
1):	Masami NIIMI	June, 2001	Shinji Usami
Name:	Masami NIIMI		
2)	Hideki ICHIKAWA	June 11, 2001	Kanji Ogishima
Name:			
3)	Masahiro KATOH	June 6 2001	Shinji Usami
Name:	Masahiro KATOH		
4)			
Name:			
5)			
Name:			

RECORDATION FORM COVER SHEET
PATENT APPLICATIONS & PATENTS ONLY

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

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FEB 20 2002

TECHNOLOGY CENTER 2800

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Tadatoshi ASADA

3.

5.

7.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> FACSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: July 2, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) July 2, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
NEW APPLICATION	0282680				
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:			6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1		
Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102			7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40		
5.5 ATTY DKT:			8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 030954 0282680		
P 0282680	57174-US-SuS/nh		dup. sheet not required	CLIENT NO.	MATTER NO.
MATTER NO.	CLIENT REF.				

9.

Signature

10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

2

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

Date: August 7, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

Please return signed/recorderd to:

Pillsbury Winthrop LLP

Intellectual Property Group
1100 New York Avenue, NW
Ninth Floor
Washington, DC 20005-3918

For Inventions made outside USA
executed with or after application

Atty. Dkt. PW

57174-US-
SuS/nh

M#

Client Ref.

USA Patent Appln.
Sole or Joint

NONPROVISIONAL

ASSIGNMENT

NONPROVISIONAL

OF NONPROVISIONAL APPLICATION

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT	(1) Tadatoshi ASADA	(2)
NAME(S) OF	(3)	(4)
INVENTOR(S)	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT	DENSO CORPORATION
NAME(S) OF	1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan
ASSESSOR(S)	
& ADDRESS(ES)	

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION	VOLTAGE REGULATOR OF VEHICLE AC GENERATOR
--------------------	---

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →	(A) <input checked="" type="checkbox"/> even date herewith
(Complete	(B) <input type="checkbox"/> on _____
line A, B and/or C)	(C) <input type="checkbox"/> in U.S. Appln. No. _____ / filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	INVENTORS	DATE SIGNED	WITNESSES
1):	Tadatoshi Asada	July 2, 2001	Yoshiaki Ishida
Name:	Tadatoshi ASADA		
2)			
Name:			
3)			
Name:			
4)			
Name:			
5)			
Name:			

BOX ASSIGNMENTS

DO NOT USE FOR TRADEMARKS

RECORDATION FORM COVER SHEET
PATENT APPLICATIONS & PATENTS ONLYTO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

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FEB 20 2002

TECHNOLOGY CENTER 2800

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Naoto IWATA
3. Masahiko NATUME
5. Nobuhiko NAGAI
7. Kunihiro KODAMA2. Masayoshi FUJITA
4. Yoshiaki MIZUNO
6. Mitsutoshi MIYAZAKI
8. Toshiji KONDOWFEB 15 2002
PATENT & TRADEMARK OFFICE
JC9ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Denso Corporation

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
<input type="checkbox"/> ORIGINAL	<input checked="" type="checkbox"/> FACSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: 27 and 28 May 1998

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
Div. of 09/092,646	281099				

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons Boulevard

McLean, VA 22102

5.5 ATTY DKT:

P 281099	U3-9812-YK-B	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 60388	281099
MATTER NO.	CLIENT REF.	dup. sheet not required	CLIENT NO.

9.

10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

3

Signature

Attorney: Kenneth M. Fagin

Reg. No. 37,615

Atty/Sec: KMF/mll

Date: July 13, 2001

FAX: (703) 905-2500

TEL: (703) 905-2066

FILE WITH PTO RETURN RECEIPT (PAT-103A)

Please return signed/recorded to:
 Cushman Darby & Cushman
 Intellectual Property Group of
 Pillsbury Madison & Sutro LLP
 Ninth Floor, East Tower
 1100 New York Avenue, N.W.
 Washington, D.C. 20005-3918

USA Patent Appln.
 Sole or Joint

Atty. Dkt

For Inventions made outside USA
 executed with or after application

Mr

Client Ref.

NONPROVISIONAL**NONPROVISIONAL**

ASSIGNMENT OF NONPROVISIONAL APPLICATION

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) <input type="checkbox"/> Naoto IWATA	(4) <input type="checkbox"/> Yoshiaki MIZUNO
(2) <input type="checkbox"/> Masayoshi FUJITA	(5) <input type="checkbox"/> Nobuhiko NAGAI
(3) <input type="checkbox"/> Masahiko NATUME	[x] <input checked="" type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSESSOR(S)
& ADDRESS(ES)**DENSO CORPORATION**

of 1-1, Showa-cho, Kariva-city, Aichi-pref. 448-0029 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF
INVENTION**IMPROVED METHOD FOR MACHINING SLOTS IN MOLDING DIE**

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE -->
(Complete
line A, B and/or C)

- (A) even date herewith
 (B) on May 27 and 28, 1998
 (C) in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE:

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE --> The undersigned hereby authorize(s) Cushman Darby & Cushman Intellectual Property Group of Pillsbury Madison & Sutro, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTOR(S)**DATE SIGNED****WITNESSES**

- 1) Naoto Iwata
 Name: Naoto Iwata
- 2) Masayoshi Fujita
 Name: Masayoshi Fujita
- 3) Masahiko Natume
 Name: Masahiko Natume
- 4) Yoshiaki Mizuno
 Name: Yoshiaki Mizuno
- 5) Nobuhiko Nagai
 Name: Nobuhiko Nagai

- 27-May-98
- 28-May-98
- 28-May-98
- 28-May-98
- 27-May-98

- Junichi Iio
- Keiji Sakai
- Keiji Sakai
- Junichi Iio
- Yoshitaka Kuroda

IF ADDITIONAL INVENTORS, check box and continue on page 2.

ASSIGNMENT

(Continued from page 1)

LISTING OF ADDITIONAL INVENTORS

**INSERT
NAME(S) OF
INVENTOR(S)**

(6)	Mitsutoshi MIYAZAKI	(11)
(7)	Kunihiro KODAMA	(12)
(8)	Toshiji KONDOW	(13)
(9)		(14)
(10)		(15)

SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

	<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
6) Name:	<u>Mitsutoshi Miyazaki</u> Mitsutoshi Miyazaki	<u>27-May-98</u>	<u>Tsiashi Kayano</u>
7) Name:	<u>Kunihiro Kodama</u> Kunihiro Kodama	<u>27-May-98</u>	<u>Tsiashi Kayano</u>
8) Name:	<u>Toshiji Kondou</u> Toshiji Kondou	<u>28-May-98</u>	<u>Keiji Sakai</u>
9) Name:			
10) Name:			
11) Name:			
12) Name:			
13) Name:			
14) Name:			
15) Name:			

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RECORDATION FORM COVER SHEET
PATENT APPLICATIONS & PATENTS ONLYTO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

RECEIVED

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):
 1. Shigenobu NAKAMURA
 3.
 5.
 7.

FEB 15 2002
U.S. PATENT & TRADEMARK OFFICE

2.
 4.
 6.
 8.

FEB 20 2002

TECHNOLOGY CENTER 2800

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

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- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> ASSIGNMENT OF | <input checked="" type="checkbox"/> WHOLE | <input type="checkbox"/> PART INTEREST |
| <input checked="" type="checkbox"/> ORIGINAL | <input type="checkbox"/> FACSIMILE/PHOTOCOPY | |
| <input type="checkbox"/> CHANGE OF NAME | <input type="checkbox"/> VERIFIED TRANSLATION | |
| <input type="checkbox"/> SECURITY | <input type="checkbox"/> MERGER | <input type="checkbox"/> OTHER: |

EXEC. DATE: August 30, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) August 30, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no.	M#	1 st INVENTOR if not in item	B. PATENT NO(S)	M#	1 st INVENTOR if not in item
09/873,410	281269				

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL = 17. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons Boulevard McLean, VA 22102
Tel: (703) 905-20008. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

P 281269	56021/US-SuS-nh	UNDER ORDER NO	30954	281269
MATTER NO.	CLIENT REF.	dup. sheet not required	CLIENT NO.	MATTER NO.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of
the original document.10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

2

Signature

Attorney: Paul T. Bowen
Reg. No. 38009
Atty/Sec: PTB/vaw

Date: October 1, 2001

TEL: (703) 905-2020 FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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Pillsbury Winthrop LLP

1600 Tysons Boulevard
McLean, Virginia 22102

For Inventions made outside USA
executed with or after application

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56021-US-
SuS/nh

M#

Client Ref.

USA Patent Appln.
Sole or Joint

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Shigenobu NAKAMURA	(2)
	(3)	(4)
	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	DENSO CORPORATION 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

BRUSHLESS AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) even date herewith
(Complete
line A, B and/or C) (B) on June 5, 2001
 (C) in U.S. Appln. No. / filed /

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1): Name: Shigenobu NAKAMURA
2): Name:
3): Name:
4): Name:
5): Name:

DATE SIGNED

August 30, 2001

WITNESSES

Hiroshi Ishida